

Abstract of the Disclosure

The present invention utilizes a linear prediction analysis for embedding a watermark into a digital audio signal and further use a short-time autocorrelation for detecting the watermark from a watermarked audio signal. A watermark-embedding apparatus includes a delayer, a linear prediction analysis filter, a linear prediction analyzer, a linear prediction synthesis filter, a sign generator and an error correction encoder. A watermark-detecting apparatus includes a linear prediction analyzer, a linear prediction analysis filter, a short-time autocorrelation part, a sign detector and an error correction decoder.